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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-13 (canceled)

14. (currently amended) A purified human nucleic acid sequence ~~which encodes an alpha subunit of a sodium channel~~ comprising a nucleic acid sequence selected from the group consisting of:

- (a) the nucleic acid of SEQ ID NO:1;
- (b) a full-length complement of (a); and
- (c) a nucleic acid sequence having at least 95% identity to the full-length nucleic acid sequence in (a) or (b).

Claims 15-16 (canceled)

17. (previously presented) A vector comprising any one of the sequences of claim 14.

Claims 18-19 (canceled)

20. (previously presented) An isolated cell harboring a vector of claim 17.

Claims 21-22 (canceled)

23. (currently amended) The purified nucleic acid of claim 14, wherein said ~~alpha subunit of a sodium channel nucleic acid sequence is SEQ ID NO:1 and encodes a protein that~~ possesses a sodium channel function.

24. (currently amended) The purified nucleic acid of claim 14, wherein ~~the presence of said nucleic acid in a sample of a subject indicated that the subject has said alpha subunit of a sodium channel is associated with an increased susceptibility to risk of~~ idiopathic generalized epilepsy.

*Allow /
Object*

25. (currently amended) The purified nucleic acid of claim 24, wherein said ~~alpha subunit of a sodium channel nucleic acid~~ comprises the following mutation:

- (a) a mutation at position 828 of SEQ ID NO: 1;
- (b) a mutation at position 3978 of SEQ ID NO: 1; or
- (c) a mutation at position 5581 of SEQ ID NO: 1; and
- (d) any combination of (a)–(c).

✓ for support
in prior art

Claims 26-29 (canceled)